Algebra I $\qquad$
Slope Intercept Form
Worksheet 1
What is slope intercept form? $\qquad$
What does the $m$ represent: $\qquad$
What does the $b$ represent: $\qquad$
Put each equation into slope intercept form. Leave any fractions as simplified improper fractions.

| $1 . y-3 x=19$ | $2.2 y-8 x=20$ | $3.15=-3 y+21 x$ |
| :--- | :--- | :--- |
| $4.5 x-6 y=22$ | $5 .-y=-7 x+32$ | $6.7 y+42=-14 x$ |

Graph each equation. State the slope and $y$-intercept.

3. $3 y-4 x=12$

Slope : $\qquad$ $y$ - int: $\qquad$

4. $5 x+2 y=-10$

Slope : $\qquad$ $y$ - int: $\qquad$


Write the equation of a line with the given information:

1. Slope of $-\frac{5}{3}$, through $(0,-4)$
2. Through the points $(-1,-9)$ and $(2,6)$
3. Through the points $(-1,10)$ and $(3,2)$
4. Through the points $(3,8)$ and $(-3,4)$
5. Through the points $(-2,27)$ and $(2,-9)$
